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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/630,427	07/29/2003	Wendell P. Noble	MI22-2378	7832	
21567	7590 06/27/2005	EXAMINER		INER	
WELLS ST. JOHN P.S.			SCHILLINGER, LAURA M		
601 W. FIRS SPOKANE,	ST AVENUE, SUITE 1300 WA 99201		ART UNIT	PAPER NUMBER	
,			2813		
			DATE MAILED: 06/27/2009	DATE MAILED: 06/27/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	10/630,427	NOBLE, WENDELL P.			
Office Action Summary	Examiner	Art Unit			
	Laura M. Schillinger	2813			
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the	correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply with by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be till by within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	mely filed ys will be considered timely. In the mailing date of this communication. ED (35 U.S.C. § 133).			
Status					
1)⊠ Responsive to communication(s) filed on 14 A	pril 2005.				
2a)⊠ This action is FINAL. 2b)☐ This	This action is FINAL. 2b) This action is non-final.				
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.				
Disposition of Claims					
4) Claim(s) 40-43 is/are pending in the applicatio 4a) Of the above claim(s) is/are withdra 5) Claim(s) is/are allowed. 6) Claim(s) 40-43 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/o	wn from consideration.				
Application Papers		ı			
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomplicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine 1.	cepted or b) objected to by the drawing(s) be held in abeyance. Se tion is required if the drawing(s) is ob	e 37 CFR 1.85(a). ojected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list	ts have been received. ts have been received in Applicat crity documents have been receiv u (PCT Rule 17.2(a)).	ion No ed in this National Stage			
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 4/14/05.	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal I 6) Other:				

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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 40-43 are rejected under 35 U.S.C. 102(e) as being anticipated by Yao et al ('089).

In reference to claim 40, Yao claims a method comprising:

forming an oxide isolation grid between silicon structures (Fig. 7 (95, 97, 98);

forming conductive material within the oxide isolation grid to form a conductive grid therein (Fig.8 (87,82, 99), and

removing selected portions of the conductive material grid to define interconnect lines within the oxide isolation grid(Col.7, lines: 60-68).

In reference to claim 41, Yao teaches the method of claim 40 of forming conductive lines of claim 40, wherein forming an oxide isolation grid comprises forming individual oxide isolation regions over a silicon substrate by trench and refill technique. (Fig. 7 (97)).

In reference to claim 42, Yao teaches the method of forming conductive lines of claim 40, wherein forming an oxide isolation grid comprises:

forming a plurality of silicon-containing islands (94) over an insulative surface (95), and forming oxide isolation regions between silicon-containing islands (Fig.7 (97)).

In reference to claim 43, Yao claims wherein forming the conductive grid within the oxide isolation grid comprises:

Etching into the oxide isolation grid to define a network of outwardly-exposed trenches running within the oxide isolation grid (Col.7, lines: 60-68);

Forming conductive material within and over the outwardly-exposed trenches to a degree sufficient to completely fill the trenches (Col.7, lines: 60-68); and

Planarizing the conductive material to isolate conductive material within the trenches and to define the conductive grid (Col.7, lines: 60-65).

Response to Arguments

Applicant's arguments filed 4/14/05 have been fully considered but they are not persuasive. Applicant argues that the Yao fails to teach a grid and that the horizontal and vertical lines cannot be considered grid because they are formed above and below one another. The Examiner does not find this argument persuasive, claim language is given its broadest reasonable interpretation. This broader interpretation allows the horizontal and vertical lines to form a

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"grid" as claimed by the Applicant, the intervening isolation material described by Yao is formed also into a grid by the rows and columns of conductive lines.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Laura M. Schillinger whose telephone number is (571) 272-1697. The examiner can normally be reached on M-T, R-F 7:00-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Carl W. Whitehead, Jr. can be reached on (571) 272-1702. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

06/17/05

Laura M Schillinger Primary Examiner